Dr. Arshad Islam

Assistant Professor



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Dr. Arshad Islam joined Sulaiman Bin Abdullah Aba AlKhail-Centre for Interdisciplinary Research in Basic Sciences (SA-CIRBS), International Islamic University Islamabad (IIUI) in February, 2019, as an Assistant Professor.

Dr. Islam got his first degree in **Biotechnology** from Department of Biotechnology and Microbiology, University of Peshawar. He did his M.Phil. in Biochemistry and Molecular Biology from Quaid-i-Azam University, Islamabad. Dr. Islam completed his Ph.D. in **Biological Inorganic Chemistry** from Universidade Federal de Minas Gerais (UFMG), Brazil, under the TWAS-CNPq Post-graduate Fellowships. He has been working as Postdoctoral Researcher at UFMG and Universidade Federal de Ouro Preto (UFOP), Brazil. He has great expertise in the field of nanomedicine, drug delivery and drug development/discovery for leishmaniasis, Chagas disease and The main theme of his research work based cancer. on the formation/synthesis/characterization of nanosystems (colloidal, micellar or liposomal), nanoparticle and organometallic complexes and investigation of their antileishmanial, anti-Chagas, antitumor and antibacterial potential and mechanism of action both in in vitro and in vivo experimental models of the diseases. During his academic career, he has published various research articles in reputed international journals and authored a book chapter in RSC. Dr. Islam has supervised four undergraduate students in the field of Pharmacology and Chemistry, at Brazil. He has presented his research work at various International conferences.

Current Research Interests:

- 1. Synthesis and characterization of metal-based nanoparticlesor complexes
- 2. Development of nanostructured drug-delivery systems to improve the efficacy and oral bioavailability of the clinically available antileishmanial drugs
- 3. Investigation on the mechanism of action of antileishmanial drugs and development of resistance mechanism by Leishmania